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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,650	01/28/2002	Shiuh-Hui Steven Chen	AP01985	3859
22917 7	590 01/16/2004		EXAMINER	
MOTOROLA, INC.			NGUYEN, DONGHAI D	
1303 EAST ALGONQUIN ROAD IL01/3RD		ART UNIT	PAPER NUMBER	
SCHAUMBURG, IL 60196			3729	1
			DATE MAILED: 01/16/2004	9

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Application No.   CHEN ET AL			Sh				
Examiner	•	Application No.	Applicant(s)				
Donghai D. Nguyen  3729  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  If the period for reply specified store is less than thisty (20) days, a reply within the standary minimum of thinty (30) days will be considered time.  If the period for reply specified store is less than thisty (20) days, a reply within the standary minimum of thinty (30) days will be considered time.  If the period for reply specified store is less than thisty (20) days, a reply within the standary minimum of thinty (30) days will be considered time.  If the period for reply specified store is less than thisty (20) days, a reply within the standary minimum of thinty (30) days will be considered time.  If the period for reply specified store is less than thisty (20) days, a reply within the standary minimum of thinty (30) days will be considered time.  Fallus for grower ASHADONED (30) 58 u.S. \$133.  Any reply received by the Office lister than three moreities after the mailing date of this communication, even if timely filed, may reduce any centre of the specification is experimentally a specification is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)(S) Claim(s)	Office Action Summers	10/058,650	CHEN ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE £ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Edatections of them may be available under the provides of 15 cert 113(6). In no event, however, may a reply be timely find after 50 (6) MONTHS from the mailing date of this communication.  Edatections of them may be available under the provides of 15 cert 113(6). In 15 cert 113(6). In no event, however, may a reply be timely find after 50 (6) MONTHS from the mailing date of this communication.  Fallable to reply within the set or extended period for reply will, by attacks, cause the application to become ABANDONED (35 U.S. 5, 133).  Fill No period for reply is specified observe, the maximus trained or the raining date of this communication, even if timely filed, may reduce any extend patent term adjustment. Set 37 CFR 1.74(b).  Status  1) □ Responsive to communication(s) filed on 21 March 2002.  2a) □ This action is FiNAL.  2b) □ This action is no condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5b) □ Claim(s) is/are allowed.  5c) □ Claim(s) is/are allowed	Office Action Summary	Examiner	Art Unit				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extractions of limb may be available under the previous of 37 CFR 1.135(a), in no event, however, may a reply be timely filed  Extractions of limb may be available under the previous of 37 CFR 1.135(a), in no event, however, may a reply be timely filed  Extractions of limb may be available under the previous of 37 CFR 1.135(a), in no event, however, may a reply be timely filed  If No period for reply is specified above, the maximum statutory previous under size in the previous of the previous of the statutory under the previous of the provious of the previous of the previous of the provious of the provio			<u> </u>				
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.13(g). In no event, however, may a reply be timely filled after SIX (g) McMTPS from the mailing date of this communication.  It to provide the provision of the provisio							
1) Responsive to communication(s) filed on 21 March 2002.  2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☐ Claim(s) is/are pending in the application.	<ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>						
2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s)  is/are withdrawn from consideration.  5)  Claim(s)  is/are allowed. 6)  Claim(s)  is/are allowed. 7)  Claim(s)  is/are objected to. 8)  Claim(s)  is/are objected to. 8)  Claim(s)  is/are objected to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner. 10)  The drawing(s) filed on  is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. §§ 119 and 120  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)  All b)  Some or   None of: 1.  Certified copies of the priority documents have been received. 2.  Certified copies of the priority documents have been received in Application No. 3.  Copies of the certified copies of the priority documents have been received in Application No. 3.  Copies of the certified copies of the priority documents have been received. 13)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  Altachment(s)  10  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification		arch 2002.					
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J.S. Patent and Trademark Office	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal F					

Application/Control Number: 10/058,650

Art Unit: 3729

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-9, drawn to a method of separating a thin die, classified in class 29, subclass 825.
  - II. Claims 10-16, drawn to a method of separating a thin die, classified in class 29, subclass 870.
  - III. Claims 17-20, drawn to a method of separating a thin die, classified in class 29, subclass 830.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions Group I and Group II-III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require activating the vacuum source. The subcombination has separate utility such as clamping the thin die.
- 3. Inventions Group II and Group III are related as combination and subcombination.

  Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the

Application/Control Number: 10/058,650

Art Unit: 3729

instant case, the combination as claimed does not require the particulars of the subcombination as claimed because combination as claimed does not require positioning the wafer on a rigid backing having a hole and/or moving the thin die. The subcombination has separate utility such as separating and transferring a thin die having an outer perimeter defined by an open trench positioned between the thin die and the support body of the wafer.

- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II and III and vice versa, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. A telephone call was made to Thomas V. Miller on January 9, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/058,650

Art Unit: 3729

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghai D. Nguyen whose telephone number is (703) 305-7859. The examiner can normally be reached on Monday-Friday (9:00-6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter D. Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

DN

PETER VO SUPERVISORY PATENT EXAMINER TECHNOLOGY GENTER 9700